



LEADING INDUSTRIAL INNOVATION PLATFORM

# One Platform, Endless Solutions

# IoT Factory Solutions

**Telit** devlceWISE®

# The Industrial Internet of Things

## Driving new levels of profitability

The Industrial Internet of Things (IIoT) is revolutionizing manufacturing. Connecting assets throughout the industrial value chain provides complete operational visibility to allow for real-time decision making and improved levels of quality and efficiency as well as new service opportunities.

### IoT BENEFITS

#### Increased Operational Efficiency

Real-time visibility into production data enables more effective use of resources and helps improve line efficiency.

#### Predict and Preventive Maintenance

Critical outages and unplanned downtime can be avoided by using real-time predictive analytics to identify and fix potential equipment failure before it happens.

#### Quality Improvements

With the help of prescriptive analytics, connected machines can be modified to prevent future equipment failure.

#### Agile Manufacturing

Companies can become more competitive and respond quickly to customer requirements and demand fluctuations while controlling costs and quality.

#### Improved Efficiency throughout the Supply Chain

Manufacturers can optimize production and avoid costly disruption with real-time visibility throughout the value chain.

#### Continuous Improvements

Manufacturers can use data analytics from connected devices to update product design and provide new levels of service such as performance-based maintenance contracts.

### IoT CHALLENGES

For manufacturers, the challenge of the IIoT, sometimes referred to as Industry 4.0, includes solving:

#### Vertical Integration (OT to IT)

Connecting highly complex, wide range of PLCs, Robots, CNCs, Torque tools, sensors etc. from multiple manufacturers including legacy equipment to a wide range of enterprise systems. In other words, connecting heterogeneous operation technology to information technology often requires costly custom programming.

#### Operate at the Edge

All IIoT processing and analytics should start at the edge, not in the cloud. Edge or fog computing can provide near real-time computing, functionality, and security for hundreds of machines or robots with centralized control in the facility without the bandwidth costs of the cloud.

#### Integrate to the Cloud

While edge computing is a must, cloud integration can significantly augment the potential of your IIoT solutions. Having a bi-directional communication from machines to Microsoft Azure, IBM Watson, AWS, Google Cloud Platform, PTC Thingworx, might be a very desirable feature.

#### Device Management

If your solution needs a cloud component, managing hundreds or thousand of devices can be tricky. Device Management, Connectivity Management and remote access might be necessary.

# Industrial IoT Expertise to Guide You Along the Way

World-class, pure-play IoT brand delivering innovative technology to connect & manage practically anything, anywhere. Deploy your IoT solution with any architecture that works best for your needs. You get complete flexibility to configure around your existing systems, even if those systems vary from facility to facility across a global enterprise.



## deviceWISE for Factory

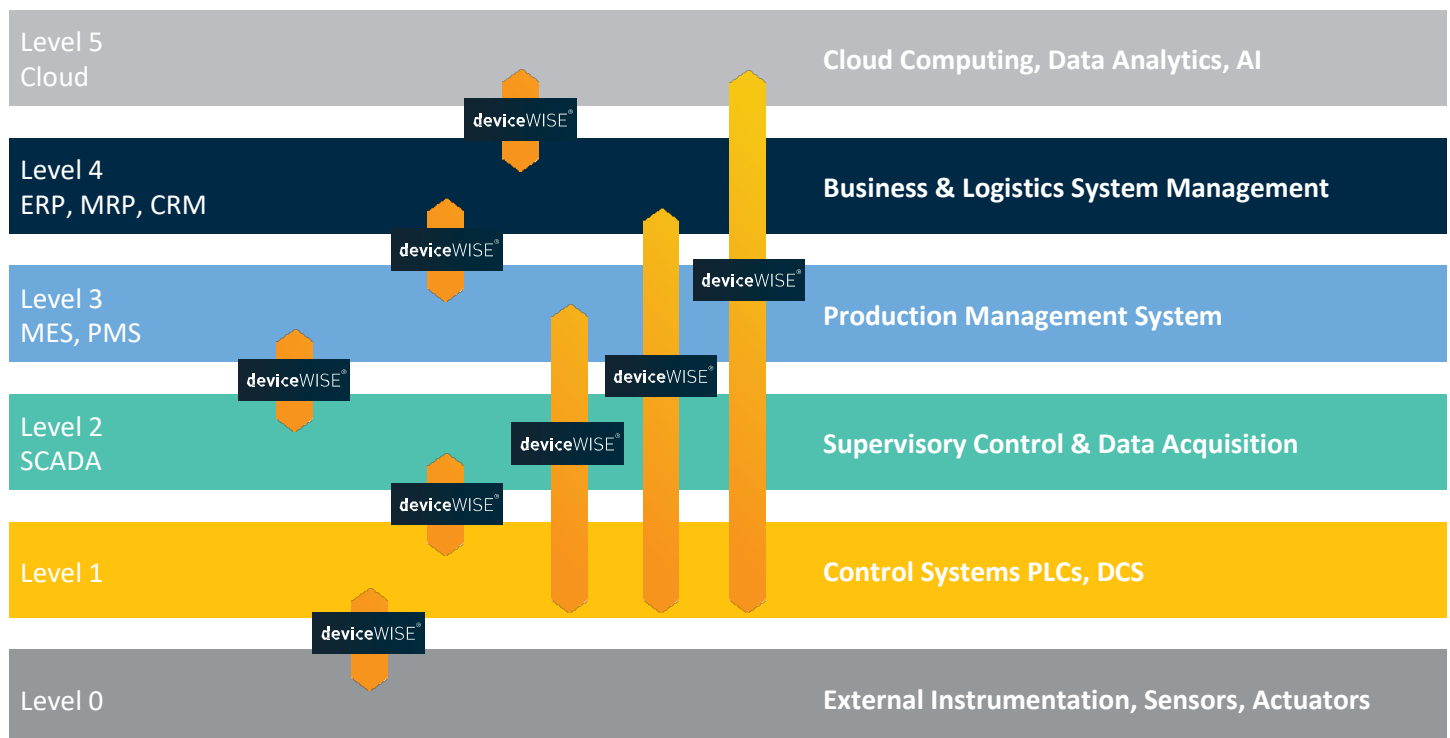
Enterprise-grade industrial automation platform



## Telit IoT Portal

A Cloud-based IoT service for Factories

**With deviceWISE you do a complete integration between any machine, any data base, any enterprise system and any cloud solution.**



**deviceWISE** Telit deviceWISE IIoT Platform (software only)

# Any Market. Any Industry.

Our industrial IoT Platform improves automation within the four walls of the factory and facilitates remote monitoring and control, asset tracking and field service operations across virtually all manufacturing verticals including:



## Automotive

7 out of the 10 biggest car makers in the world are using Telit's IoT Platform across their production facilities in North America, Europe and Asia to respond quickly and efficiently to changes in market demand, improve resource utilization and improve productivity.



## Pharmaceuticals

Pharmaceutical manufacturers depend on Telit's IoT Platform to collect and monitor data from production processes to ensure quality control and serialization in multiple plants across the world.



## Heavy Machinery

Heavy equipment manufacturers are using Telit's IoT Platform to optimize production processes and quickly integrate them with hybrid manufacturing execution systems (MES), enabling tracking of as built quality data.



## Industrial

Industrial components producers are saving time and money by using Telit's IoT Platform to collect and integrate data from a variety of PLCs and production assets with enterprise systems.



## Food and Beverage

Food and beverage manufacturers rely on Telit's IoT Platform to enable automated inventory maintenance, saving time and making warehouse management much more cost-efficient while assuring food safety and freshness. Order-specific production data is provided to the line controls and consumption data can be confirmed back to the production planning system.



## Semiconductor

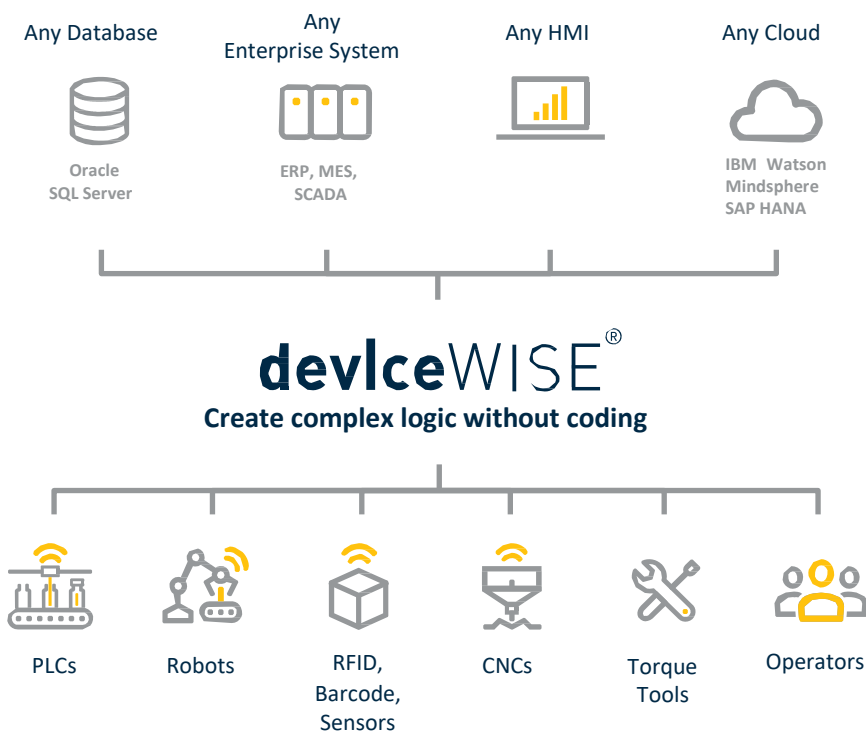
Telit's platform for the semiconductor industry has been widely recognized as the leading solution for highly secured remote access. Connecting more FABs and OEMs than any other platform in the industry, it delivers secure, configurable, end-to-end remote connectivity across private networks, providing OEMs role-based, real-time and on-demand access to their equipment installed at production facilities around the globe. It allows FABs and OEMs to remotely collaborate in ways that improve equipment performance at every stage of the process and equipment lifecycles while protecting valuable intellectual property.



# IoT Innovation

Telit is the partner to help you create IoT enabled solutions and applications, with complete lifecycle management in all market segments and functions.

## Integrate to any IT system: Dozens of IT connectors ready



## Collect data from any device: More than 100 drivers available

### AI Integration

Integrate to any cognitive platform for data analytics and AI.

### IT to OT

Fully integrate your machine to MES, ERP, SCADA, etc.

### OEE Visualization

Track all your production data in any type of screen. From HMIs to Mobile.

### Quality Control

Control quality in real time.

### Preventive and Predictive Maintenance

Create preventive and predictive maintenance programs.

### Integrate and Automate

Make all the machines talk to each other.